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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,869	12/07/2001	Richard Warren Tanzer	12870.1	6318
22827	7590	02/06/2006	EXAMINER	
DORITY & MANNING, P.A. POST OFFICE BOX 1449 GREENVILLE, SC 29602-1449			STEPHENNS, JACQUELINE F	
		ART UNIT	PAPER NUMBER	
		3761		

DATE MAILED: 02/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	10/010,869	TANZER ET AL.
	Examiner	Art Unit
	Jacqueline F. Stephens	3761

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 11 October 2005.
- 2a) This action is **FINAL**.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-9 and 19-26 is/are pending in the application.
- 4a) Of the above claim(s) 4, 22, and 26 is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-9, 19-26 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All    b) Some \* c) None of:
- Certified copies of the priority documents have been received.
  - Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
 Paper No(s)/Mail Date \_\_\_\_\_.
- 4) Interview Summary (PTO-413)  
 Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_.

**DETAILED ACTION**

***Response to Arguments***

1. Applicant's arguments filed 10/11/05 have been fully considered and they are partially persuasive.

Applicant's arguments regarding the rejections under 112 first paragraph are persuasive.

As to the rejection of claims 1, 2, 5-9, 19, 20, 23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dutkiewicz et al. USPN 5843852 in view of Bastioli et al. USPN 5286770 and further in view of Edgington et al. USPN 6365680, applicant's arguments are not persuasive. Applicant argues Bastioli discloses the topsheet and backsheet are joined together effectively enclosing the absorbent material within, not bond the absorbent material to either sheet. However, Bastioli discloses the adhesive is used to bond the topsheet and backsheet directly or they are joined indirectly by affixing the topsheet to intermediate members, which in turn are affixed to the backsheet. The absorbent core is an intermediate member between the topsheet and backsheet (Bastiolicol. 9, lines 64-65). Therefore the layers between the topsheet and backsheet would be bonded as well. Additionally, Edgington discloses the entire disposable article can be made from adhesive that are biodegradable (Abstract).

As to the rejection of claims 3, 21, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dutkiewicz/Bastilio and further in view of Noda USPN 5685756, applicant's arguments are directed to the deficiencies of Dutkiewicz/Bastioli/Edgington, which are discussed above.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1, 2, 5-9, 19, 20, 23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dutkiewicz et al. USPN 5843852 in view of Bastioli et al. USPN 5286770 and further in view of Edgington et al. USPN 6365680.

As to claims 1, 5, 6-9, 19, and 23, Dutkiewicz discloses the present invention substantially as claimed. Dutkiewicz discloses a transport layer having the claimed properties, see col. 6, line 42 through col. 7, line 52. Dutkiewicz discloses an absorbent structure for use as a diaper, however, Dutkiewicz does not specifically disclose a second retention layer comprising a hydrogel-forming polymeric material. Bastioli discloses a retention layer having hydrogel-forming polymeric material (col. 10, lines 8-11). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the article of Dutkiewicz to have a retention layer comprising hydrogel-forming polymeric material for the benefit of increasing moisture absorption in a relatively thin pad.

Dutkiewicz/Bastilio do not disclose the claimed absorbent capacity. Dutkiewicz/Bastilio recognizes the size and absorbent capacity of the absorbent core may vary to accommodate wearers of different sizes (Bastilio col. 9, line 64 through col. 10, line 6). It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the article of Dutkiewicz/Bastilio with the claimed absorbent capacity, since discovering an optimum value of a result effective variable involves only routine skill in the art.

Dutkiewicz/Bastilio are considered to disclose a bonding agent bonding the topsheet, backsheet, and intermediate layers (Bastilio col. 9, lines 11-25).

In the alternative, where Dutkiewicz/Bastilio do not specifically disclose a bonding agent bonding the wicking layer and second retention layer, Edgington discloses the *entire* disposable article can be made from adhesives that are biodegradable (Abstract). Edgington et al. discloses a poly(lactic) acid bonding agent used as a construction adhesive for disposable absorbent articles. It would have been obvious to one having ordinary skill in the art to modify Dutkiewicz/Bastilio to have a bonding agent bond the wicking and retention layers for the benefit of providing a biodegradable article, which Edgington teaches (col. 2, lines 1-7) and for the additional benefit of securing the superabsorbent material to prevent loose absorbent, which can be irritating to a user.

As to claims 2, 20, 24 Dutkiewicz/Bastilio/Edgington discloses a dry tensile and a wet tensile strength (Dutkiewicz col. 8, lines 26-46). However, Dutkiewicz/Bastilio/Edgington does not disclose a dry or wet geometric mean breaking length. The liquid transport structure of Dutkiewicz/Bastilio/Edgington has the same properties (vertical flux) and is used in the same environment as applicant's wicking layer. Therefore, the general conditions of the claimed invention are present in the prior art. Even though Dutkiewicz/Bastilio/Edgington does not disclose the specific geometric mean breaking length, applicant has not disclosed the claimed geometric mean breaking length value is critical. The claims are structural claims and liquid transport structure, results in a structure that is capable of transporting fluids at a high rate. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the structure of Dutkiewicz/Bastilio/Edgington with

the claimed geometric mean breaking length of the present invention, since where the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation, *In re Aller et al.* 105 USPQ 233.

5. Claims 3, 21, 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dutkiewicz/Bastilio/Edgington as applied to claims 1, 10, 19, and 24 above, and further in view of Noda USPN 5685756.

Dutkiewicz/Bastilio/Edgington discloses the present invention substantially as claimed. However, Dutkiewicz/Bastilio/Edgington do not disclose the binding agent is polyhydroxyalkanoate. Noda discloses the use of polyhydroxyalkanoate as a binding agent in a disposable article for the benefit of providing a compostable product (col. 2, lines 1-8). It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the invention of Dutkiewicz/Bastilio/Edgington to comprise polyhydroxyalkanoate for the benefits disclosed in Noda.

### ***Conclusion***

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline F. Stephens whose telephone number is (571) 272-4937. The examiner can normally be reached on Monday-Friday 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tanya Zalukaeva can be reached on (571) 272-1115. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3761

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Jacqueline F Stephens  
Examiner  
Art Unit 3761

January 4, 2006